

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P136272

Luminaire Tested: **LD6A15D010TE ERW6A15827 6LW111LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23359-R2)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A15D010TE ERW6A15827 6LW111LI
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED SINGLE WALL WASH LUMINAIRE
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1490.0 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

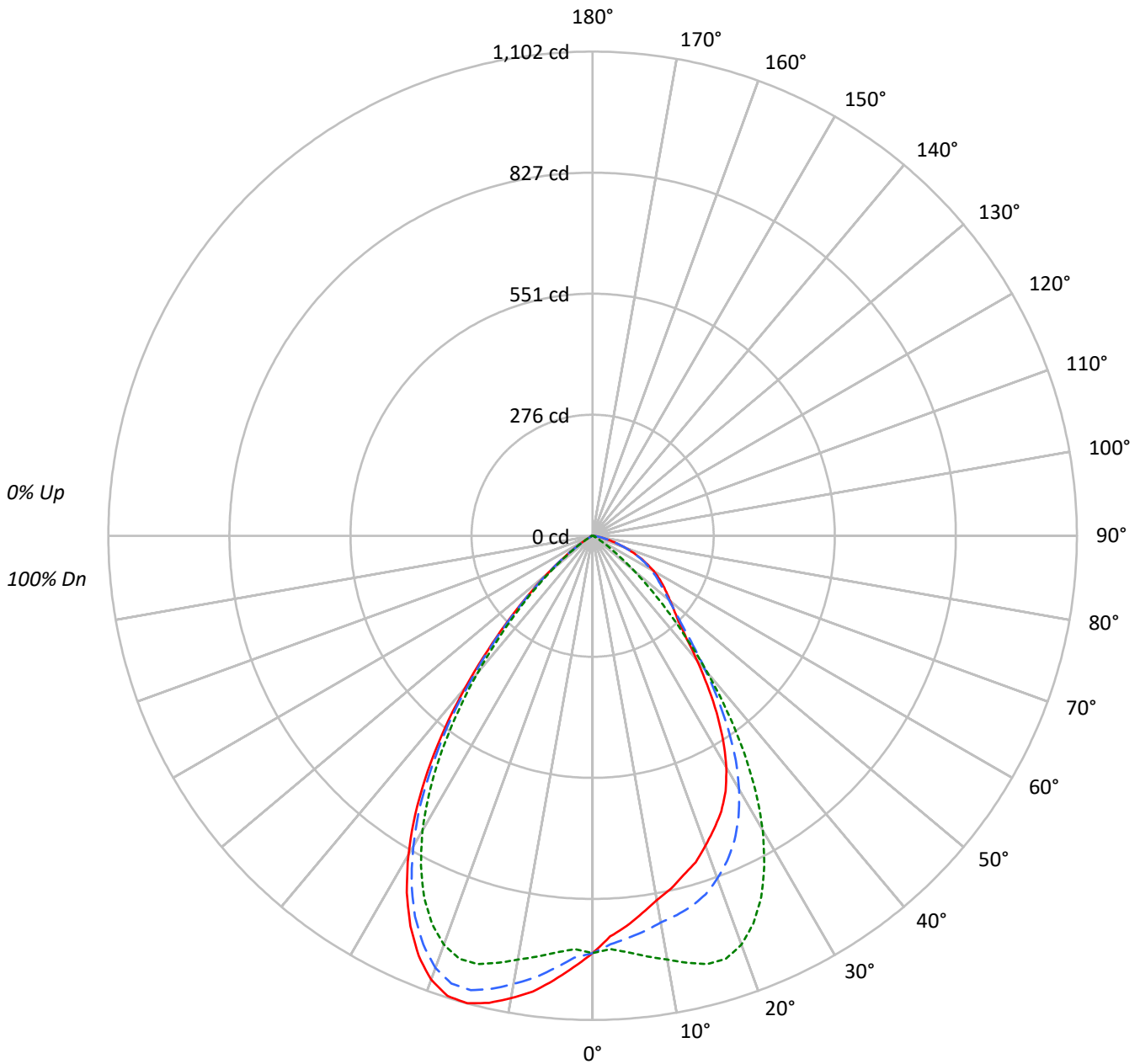
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P136272

CATALOG NUMBER: LD6A15D010TE ERW6A15827 6LW111LI

Luminous Intensity Polar Plot





TEST NUMBER: P136272

CATALOG NUMBER: LD6A15D010TE ERW6A15827 6LW111LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91								
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82								
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74								
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66								
5	86	76	69	64	84	75	69	64	73	68	63	72	67	63	70	66	62	60								
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55								
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	60	56	52	50								
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46								
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43								
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	61972	61972	61972
5°	58391	62346	66511
10°	55760	64896	70792
15°	53986	68170	74398
20°	52112	68747	74635
25°	49835	65326	70589
30°	45840	58301	63175
35°	39177	47707	52095
40°	31332	34577	38282
45°	25529	21913	24551
50°	23344	12048	13661
55°	22191	4948	5790
60°	20890	1801	1801
65°	18664	988	818
70°	14974	801	610
75°	9881	529	529
80°	5185	413	413
85°	2395	0	0



TEST NUMBER: P136272

CATALOG NUMBER: LD6A15D010TE ERW6A15827 6LW111LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	6.2
10°-20°	274.8	18.4
20°-30°	395.3	26.5
30°-40°	363.1	24.4
40°-50°	208.5	14.0
50°-60°	92.1	6.2
60°-70°	45.3	3.0
70°-80°	17.4	1.2
80°-90°	2.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	761.7	51.1
0°-40°	1124.8	75.5
0°-60°	1425.4	95.7
0°-90°	1490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	950	950	950	950	950	
5°	892	919	952	988	1016	84
15°	799	872	1009	1071	1102	225
25°	692	764	908	956	981	316
35°	492	538	599	633	654	305
45°	277	288	238	260	266	220
55°	195	186	44	48	51	174
65°	121	117	6	4	5	118
75°	39	41	2	2	2	44
85°	3	3	0	0	0	5
90°	0	0	0	0	0	



TEST NUMBER: P136272

CATALOG NUMBER: LD6A15D010TE ERW6A15827 6LW111LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	912.8	918.1	912.8	920.2	924.4	926.6	924.4	919.1	926.6	930.8	929.7
5°	891.6	895.8	891.6	899.0	904.3	909.6	907.5	904.3	912.8	919.1	920.2
7.5°	866.1	871.4	868.3	875.7	882.0	888.4	888.4	887.3	897.9	907.5	910.7
10°	841.7	846.0	843.9	851.3	858.7	866.1	868.3	869.3	881.0	893.7	901.1
12.5°	822.7	824.8	822.7	831.1	838.6	847.0	851.3	853.4	868.3	884.2	893.7
15°	799.3	804.6	802.5	811.0	819.5	829.0	834.3	838.6	854.5	872.5	886.3
17.5°	779.2	781.3	779.2	788.7	796.2	806.8	813.1	818.4	835.4	855.5	870.4
20°	750.6	754.8	753.8	762.2	770.7	780.3	786.6	791.9	809.9	830.1	847.0
22.5°	722.0	726.2	726.2	734.7	741.0	751.6	756.9	762.2	779.2	800.4	815.2
25°	692.3	695.5	694.4	701.8	709.2	719.8	724.1	729.4	745.3	764.4	778.1
27.5°	655.2	657.3	659.4	665.8	671.1	680.6	683.8	689.1	701.8	719.8	732.6
30°	608.5	610.6	613.8	619.1	623.4	632.9	635.0	639.3	652.0	666.8	678.5
32.5°	553.4	554.5	559.8	564.0	569.3	575.7	581.0	582.0	591.6	606.4	614.9
35°	491.9	493.0	498.3	501.4	506.7	513.1	517.3	518.4	526.9	538.5	543.9
37.5°	428.3	434.7	433.6	436.8	442.1	447.4	451.6	451.6	458.0	467.5	469.6
40°	367.9	371.0	374.2	376.3	380.6	384.8	388.0	388.0	392.3	398.6	398.6
42.5°	315.9	321.2	321.2	323.3	326.5	330.8	332.9	331.8	333.9	337.1	335.0
45°	276.7	278.8	279.9	283.1	284.1	288.4	289.4	287.3	288.4	288.4	282.0
47.5°	251.3	251.3	251.3	253.4	254.4	257.6	257.6	254.4	253.4	252.3	243.8
50°	230.0	230.0	231.1	233.2	234.3	235.4	235.4	231.1	230.0	225.8	214.1
52.5°	212.0	213.1	213.1	215.2	216.3	217.3	216.3	212.0	208.8	204.6	190.8
55°	195.1	196.1	197.2	199.3	199.3	199.3	198.2	194.0	190.8	185.5	171.7
57.5°	178.1	179.2	179.2	181.3	182.3	182.3	181.3	177.0	173.9	169.6	154.8
60°	160.1	160.1	161.1	163.3	163.3	164.3	163.3	160.1	156.9	151.6	138.9
62.5°	139.9	141.0	142.1	144.2	145.2	145.2	145.2	142.1	139.9	135.7	123.0
65°	120.9	120.9	121.9	124.0	124.0	127.2	125.1	123.0	120.9	116.6	106.0
67.5°	98.6	99.7	99.7	101.8	102.8	103.9	103.9	101.8	100.7	97.5	88.0
70°	78.5	78.5	79.5	80.6	81.6	82.7	82.7	81.6	80.6	77.4	70.0
72.5°	57.2	58.3	58.3	59.4	61.5	62.5	62.5	62.5	60.4	58.3	53.0
75°	39.2	40.3	40.3	41.3	42.4	43.5	43.5	43.5	42.4	41.3	37.1
77.5°	24.4	24.4	25.4	25.4	26.5	27.6	28.6	28.6	27.6	26.5	24.4
80°	13.8	13.8	14.8	14.8	14.8	15.9	17.0	17.0	17.0	15.9	13.8
82.5°	7.4	7.4	7.4	7.4	7.4	8.5	8.5	8.5	8.5	8.5	7.4
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P136272

CATALOG NUMBER: LD6A15D010TE ERW6A15827 6LW111LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	929.7	937.2	942.5	934.0	941.4	948.8	957.3	941.4	956.2	947.8	950.9
5°	924.4	932.9	940.3	935.0	944.6	954.1	965.8	952.0	969.0	962.6	967.9
7.5°	917.0	928.7	939.3	937.2	949.9	962.6	977.4	965.8	983.8	980.6	987.0
10°	910.7	926.6	940.3	940.3	957.3	972.1	988.0	979.6	1000.8	997.6	1006.1
12.5°	906.4	926.6	944.6	947.8	967.9	984.9	1003.9	995.5	1018.8	1015.6	1025.2
15°	902.2	925.5	946.7	953.1	975.3	995.5	1015.6	1009.3	1033.6	1030.5	1040.0
17.5°	888.4	916.0	939.3	947.8	972.1	993.3	1014.6	1009.3	1033.6	1030.5	1040.0
20°	865.1	892.6	918.1	927.6	952.0	974.3	994.4	990.2	1014.6	1011.4	1019.9
22.5°	835.4	861.9	886.3	895.8	919.1	939.3	959.4	955.2	978.5	973.2	982.7
25°	794.0	821.6	844.9	852.4	873.6	893.7	911.7	907.5	929.7	923.4	932.9
27.5°	751.6	771.8	790.9	797.2	816.3	833.3	850.2	846.0	867.2	859.8	869.3
30°	694.4	710.3	727.3	730.4	748.5	762.2	777.1	773.9	791.9	785.6	794.0
32.5°	627.6	641.4	653.0	654.1	668.9	680.6	693.3	691.2	707.1	701.8	708.2
35°	554.5	562.9	570.4	569.3	581.0	589.4	601.1	599.0	613.8	608.5	614.9
37.5°	477.1	481.3	483.4	479.2	487.7	494.0	502.5	501.4	514.2	509.9	516.3
40°	401.8	401.8	398.6	391.2	396.5	399.7	406.0	406.0	415.6	411.3	416.6
42.5°	332.9	328.6	321.2	310.6	311.7	315.9	315.9	315.9	323.3	319.1	328.6
45°	276.7	267.2	255.5	241.7	237.5	239.6	237.5	237.5	242.8	239.6	247.0
47.5°	233.2	221.6	201.4	184.5	177.0	176.0	172.8	172.8	176.0	176.0	179.2
50°	200.4	183.4	159.0	138.9	128.3	125.1	120.9	118.7	121.9	120.9	123.0
52.5°	173.9	152.7	124.0	100.7	90.1	82.7	79.5	75.3	76.3	76.3	77.4
55°	151.6	127.2	96.5	72.1	60.4	51.9	47.7	43.5	43.5	42.4	43.5
57.5°	134.6	109.2	78.5	54.1	41.3	32.9	28.6	24.4	23.3	23.3	23.3
60°	119.8	95.4	64.7	42.4	29.7	21.2	17.0	13.8	12.7	11.7	11.7
62.5°	105.0	82.7	55.1	35.0	22.3	15.9	11.7	8.5	7.4	6.4	6.4
65°	90.1	71.0	47.7	29.7	19.1	12.7	8.5	6.4	5.3	4.2	4.2
67.5°	74.2	58.3	40.3	24.4	15.9	10.6	7.4	5.3	4.2	3.2	3.2
70°	59.4	46.6	31.8	20.1	12.7	8.5	5.3	4.2	3.2	3.2	3.2
72.5°	44.5	35.0	24.4	14.8	9.5	6.4	4.2	3.2	2.1	2.1	2.1
75°	31.8	25.4	17.0	10.6	6.4	4.2	3.2	2.1	2.1	2.1	2.1
77.5°	20.1	15.9	10.6	6.4	4.2	2.1	2.1	1.1	1.1	1.1	1.1
80°	11.7	9.5	6.4	4.2	2.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	6.4	4.2	3.2	2.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
85°	2.1	2.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P136272

CATALOG NUMBER: LD6A15D010TE ERW6A15827 6LW111LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	959.4	957.3	964.7	967.9	965.8	961.5	975.3	978.5	969.0	973.2	973.2
5°	978.5	978.5	988.0	992.3	992.3	988.0	1003.9	1009.3	999.7	1003.9	1005.0
7.5°	999.7	999.7	1011.4	1016.7	1017.7	1014.6	1030.5	1034.7	1028.3	1032.6	1033.6
10°	1018.8	1018.8	1032.6	1037.9	1038.9	1035.8	1051.7	1057.0	1049.5	1053.8	1054.8
12.5°	1038.9	1040.0	1053.8	1059.1	1059.1	1055.9	1071.8	1077.1	1068.6	1073.9	1072.9
15°	1053.8	1054.8	1068.6	1073.9	1075.0	1070.7	1085.6	1091.9	1083.5	1086.6	1086.6
17.5°	1052.7	1053.8	1066.5	1071.8	1071.8	1068.6	1081.3	1088.8	1080.3	1083.5	1082.4
20°	1031.5	1032.6	1046.4	1050.6	1050.6	1046.4	1058.0	1065.4	1057.0	1059.1	1058.0
22.5°	993.3	994.4	1007.1	1011.4	1012.4	1007.1	1018.8	1027.3	1017.7	1018.8	1017.7
25°	943.5	943.5	957.3	957.3	962.6	956.2	964.7	976.4	966.8	966.8	963.7
27.5°	878.9	878.9	892.6	892.6	899.0	892.6	906.4	911.7	903.2	902.2	902.2
30°	803.6	803.6	816.3	816.3	821.6	816.3	830.1	835.4	826.9	825.8	826.9
32.5°	717.7	717.7	730.4	729.4	735.7	731.5	744.2	748.5	742.1	738.9	741.0
35°	623.4	628.7	636.1	635.0	641.4	632.9	648.8	652.0	646.7	647.7	644.6
37.5°	523.7	529.0	534.3	534.3	539.6	537.5	547.0	550.2	546.0	547.0	543.9
40°	424.1	429.4	433.6	433.6	438.9	432.5	445.3	448.4	444.2	440.0	442.1
42.5°	329.7	335.0	339.2	338.2	343.5	342.4	349.8	352.0	348.8	347.7	345.6
45°	248.1	249.1	256.6	259.7	259.7	259.7	265.0	266.1	262.9	262.9	261.9
47.5°	179.2	181.3	186.6	188.7	189.8	188.7	190.8	195.1	191.9	191.9	192.9
50°	124.0	125.1	129.3	131.5	131.5	131.5	132.5	135.7	133.6	133.6	131.5
52.5°	79.5	79.5	82.7	83.8	83.8	83.8	84.8	86.9	84.8	85.9	86.9
55°	44.5	44.5	46.6	47.7	47.7	47.7	48.8	49.8	48.8	49.8	49.8
57.5°	23.3	23.3	24.4	24.4	25.4	25.4	25.4	26.5	26.5	26.5	26.5
60°	11.7	11.7	11.7	12.7	12.7	12.7	12.7	13.8	13.8	13.8	13.8
62.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.4	7.4	7.4	7.4
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	2.1	2.1
75°	1.1	2.1	2.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P136272

CATALOG NUMBER: LD6A15D010TE ERW6A15827 6LW111LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	949.9	949.9	949.9	949.9
2.5°	964.7	965.8	983.8	982.7
5°	996.5	997.6	1015.6	1015.6
7.5°	1025.2	1026.2	1045.3	1046.4
10°	1046.4	1048.5	1066.5	1068.6
12.5°	1066.5	1066.5	1084.5	1088.8
15°	1079.2	1079.2	1096.2	1101.5
17.5°	1075.0	1075.0	1091.9	1098.3
20°	1051.7	1050.6	1066.5	1075.0
22.5°	1011.4	1012.4	1025.2	1034.7
25°	960.5	958.4	972.1	980.6
27.5°	896.9	897.9	906.4	916.0
30°	820.5	822.7	829.0	838.6
32.5°	734.7	737.9	742.1	751.6
35°	640.3	643.5	645.6	654.1
37.5°	538.5	542.8	543.9	552.3
40°	437.8	442.1	442.1	449.5
42.5°	343.5	346.7	345.6	352.0
45°	259.7	261.9	260.8	266.1
47.5°	189.8	191.9	189.8	194.0
50°	131.5	133.6	131.5	134.6
52.5°	84.8	85.9	83.8	86.9
55°	48.8	49.8	48.8	50.9
57.5°	27.6	26.5	25.4	27.6
60°	13.8	13.8	13.8	13.8
62.5°	7.4	7.4	7.4	7.4
65°	4.2	4.2	4.2	5.3
67.5°	4.2	4.2	4.2	4.2
70°	3.2	3.2	3.2	3.2
72.5°	2.1	2.1	2.1	2.1
75°	2.1	2.1	2.1	2.1
77.5°	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.0	1.1
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)